

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference IPCL-NAN-2	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, Item 5 below.	
International application No. PCT/IN2004/000009	International filing date (day/month/year) 13/01/2004	(Earliest) Priority Date (day/month/year)
Applicant INDIAN PETROCHEMICALS CORPORATION LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).

3. ☐ Unity of invention is lacking (see Box III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 2

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☒ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

Form PCT/ISA/210 (first sheet) (January 2004)

EXPRESS MAIL LABEL

NO.: EV 815 584 614 US

BEST AVAILABLE COPY

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PARK J H ET AL: "The relationship between nano- and micro-structures and mechanical properties in PMMA-epoxy-nanoclay composites" POLYMER, ELSEVIER SCIENCE PUBLISHERS B.V, GB, vol. 44, no. 7, March 2003 (2003-03), pages 2091-2100, XP004412485 ISSN: 0032-3861	1-3,11, 17-21, 29,35-42
A	page 2093 - page 2095	4-10, 12-16, 22-28, 30-34
X	----- EP 0 747 451 A (AMCOL INTERNATIONAL CORP) 11 December 1996 (1996-12-11)	1-4,9, 11,12, 16-22, 27,29, 30,34, 37-42
A	page 13, line 26 - page 14, line 4; claims 1,5,14,20,24; example 1	5-8,10, 13-15, 23-26, 28, 31-33, 35,36
X	----- EP 0 909 787 A (AMCOL INTERNATIONAL CORP) 21 April 1999 (1999-04-21)	1-3,11, 12, 16-21, 29,30, 34-42
A	paragraphs '0002!, '0006!, '0008!, '0074!	4-10, 13-15, 22-28, 31-33

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PARK J H ET AL: "The relationship between nano- and micro-structures and mechanical properties in PMMA-epoxy-nanoclay composites" POLYMER, ELSEVIER SCIENCE PUBLISHERS B.V, GB, vol. 44, no. 7, March 2003 (2003-03), pages 2091-2100, XP004412485 ISSN: 0032-3861	1-3,11, 17-21, 29,35-42
A	page 2093 - page 2095	4-10, 12-16, 22-28, 30-34
X	----- EP 0 747 451 A (AMCOL INTERNATIONAL CORP) 11 December 1996 (1996-12-11)	1-4,9, 11,12, 16-22, 27,29, 30,34, 37-42
A	page 13, line 26 - page 14, line 4; claims 1,5,14,20,24; example 1	5-8,10, 13-15, 23-26, 28, 31-33, 35,36
X	----- EP 0 909 787 A (AMCOL INTERNATIONAL CORP) 21 April 1999 (1999-04-21)	1-3,11, 12, 16-21, 29,30, 34-42
A	paragraphs '0002!, '0006!, '0008!, '0074!	4-10, 13-15, 22-28, 31-33

INTERNATIONAL SEARCH REPORT

U 016344-2

Information on patent family members

International Application No

PCT/IN2004/000009

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0846660	A	10-06-1998	US 5952095 A	14-09-1999
			CA 2218303 A1	06-06-1998
			CA 2218356 A1	06-06-1998
			CA 2223350 A1	06-06-1998
			EP 0846660 A2	10-06-1998
			EP 0846661 A2	10-06-1998
			EP 0846662 A2	10-06-1998
			JP 10194727 A	28-07-1998
			JP 10273314 A	13-10-1998
			US 6251980 B1	26-06-2001
			US 6242500 B1	05-06-2001
			US 6057396 A	02-05-2000
			US 6124365 A	26-09-2000
EP 0747451	A	11-12-1996	US 5698624 A	16-12-1997
			US 5552469 A	03-09-1996
			US 5721306 A	24-02-1998
			US 5760121 A	02-06-1998
			CA 2178441 A1	08-12-1996
			EP 0747451 A2	11-12-1996
			JP 9118518 A	06-05-1997
			US 5998528 A	07-12-1999
			US 6228903 B1	08-05-2001
			US 5837763 A	17-11-1998
			US 5844032 A	01-12-1998
			US 5849830 A	15-12-1998
			US 5877248 A	02-03-1999
EP 0909787	A	21-04-1999	US 5849830 A	15-12-1998
			CA 2247607 A1	15-04-1999
			EP 0909787 A1	21-04-1999
			JP 11193350 A	21-07-1999